

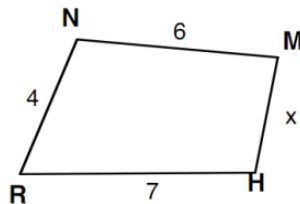
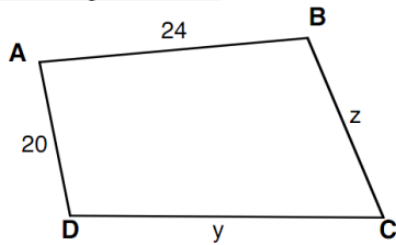
WLPCS
Geometry

Name: _____ Date: _____ Per.: _____

5.3 Solving Problems using SIMILARITY

1)

Quad ABCD ~ Quad MNRH.



Write a proportion
and solve for x.

Write a proportion
and solve for y.

Write a proportion
and solve for z.

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

$$z = \underline{\hspace{2cm}}$$

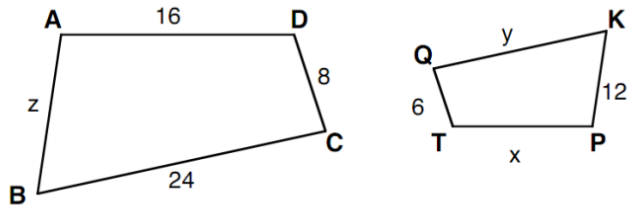
Scale factor of Figure 1 to Figure 2: _____

Scale factor of Figure 2 to Figure 1: _____

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2)

Quad ABCD ~ Quad PKQT.



Write a proportion
and solve for x.

Write a proportion
and solve for y.

Write a proportion
and solve for z.

x = _____

y = _____

z = _____

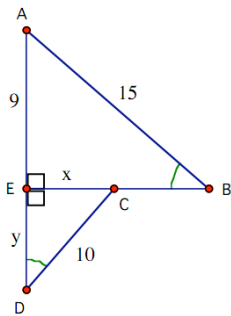
Scale factor of Figure 1 to Figure 2: _____

Scale factor of Figure 2 to Figure 1: _____

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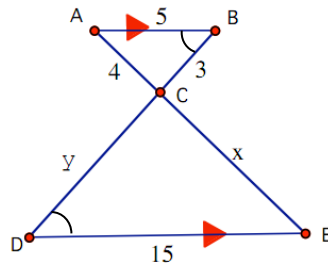
For each set of triangles below write which are similar and solve for x and y :

3.)



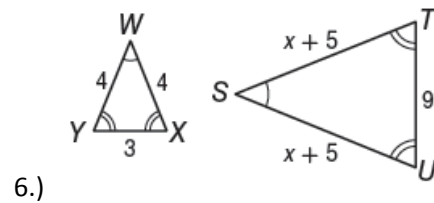
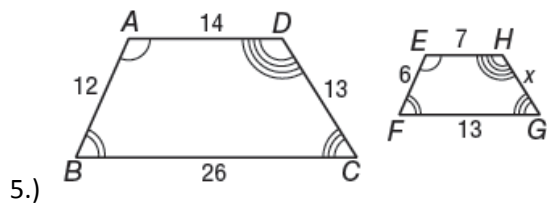
Given that $\triangle BEA \sim \triangle DEC$, find x and y .

4.)

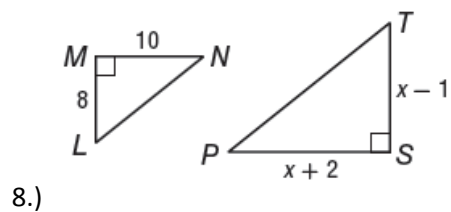
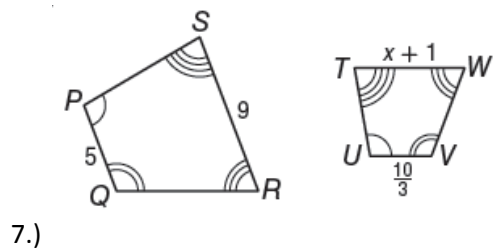


Given $\triangle BAC \sim \triangle DEC$, find x and y .

Given that the two figures are similar, set up a proportion and solve for x in each problem below.



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Find the indicated side length in the figures below by setting up a proportion and solving for x .

